

Fig. 1

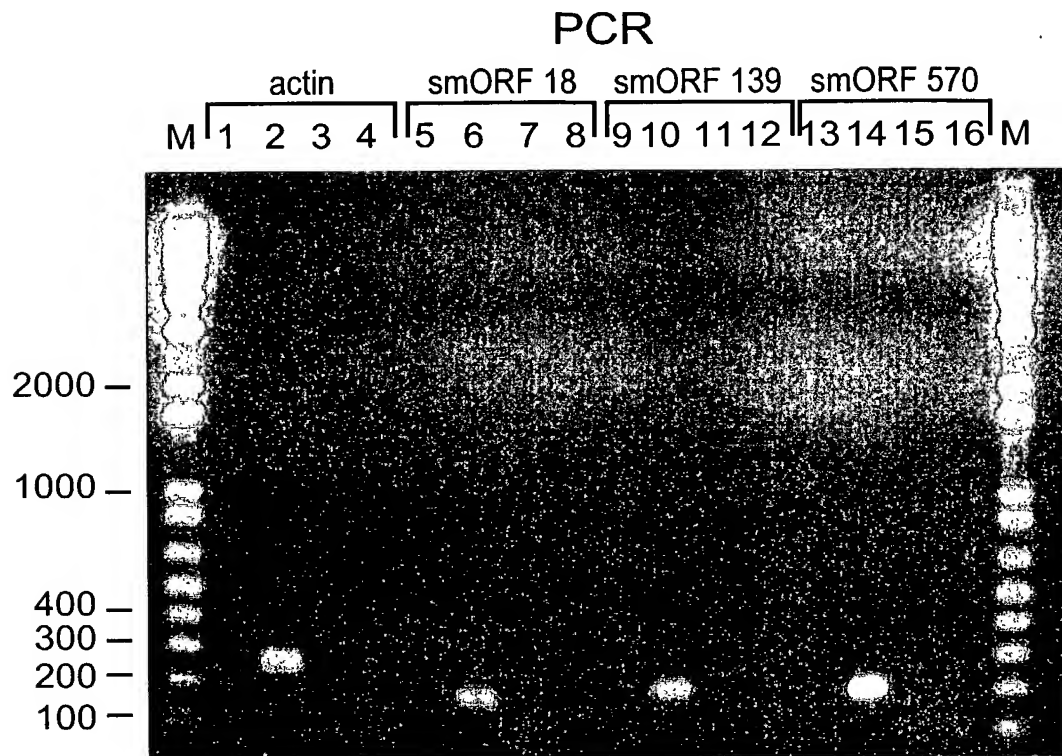


Fig. 2A

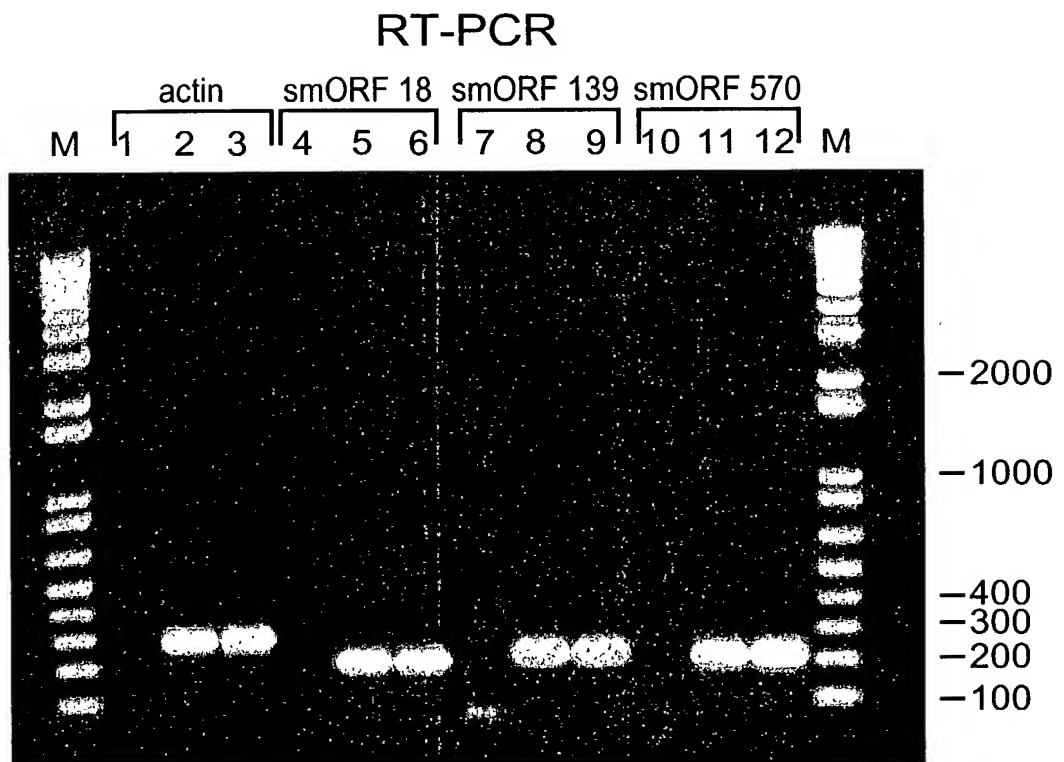


Fig. 2B

# Two step orientation-specific RT-PCR

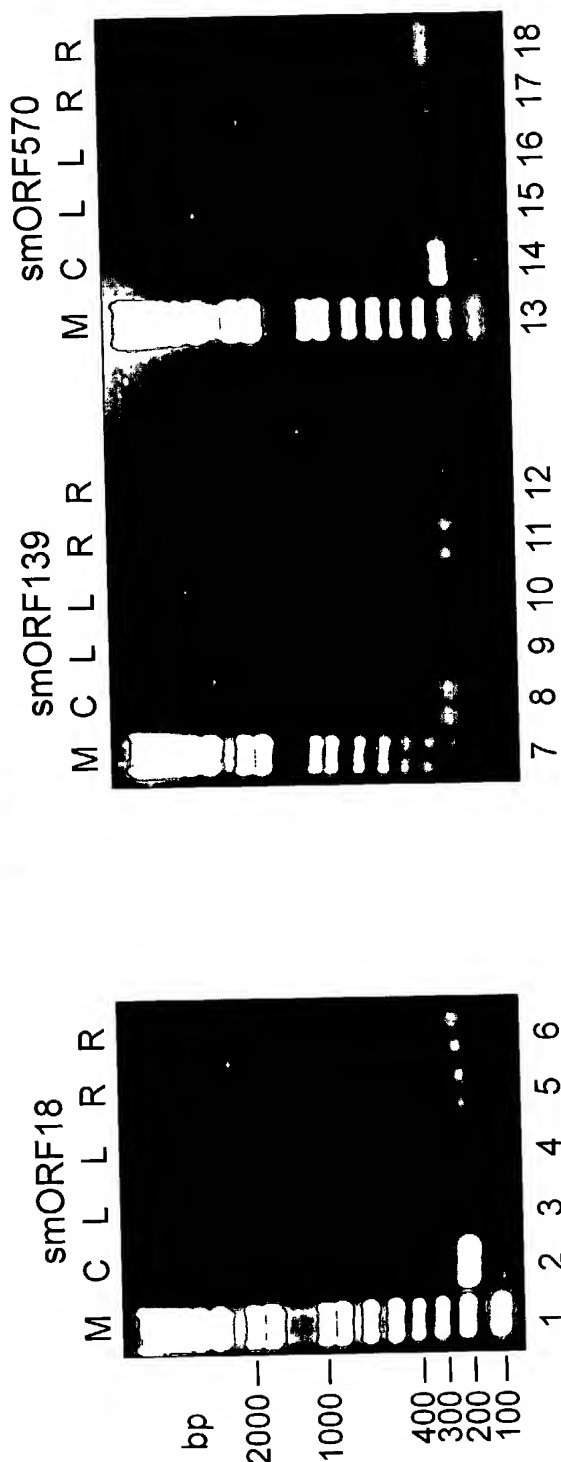
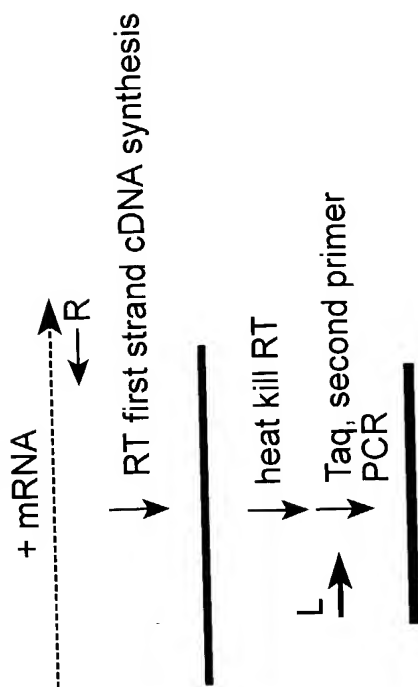
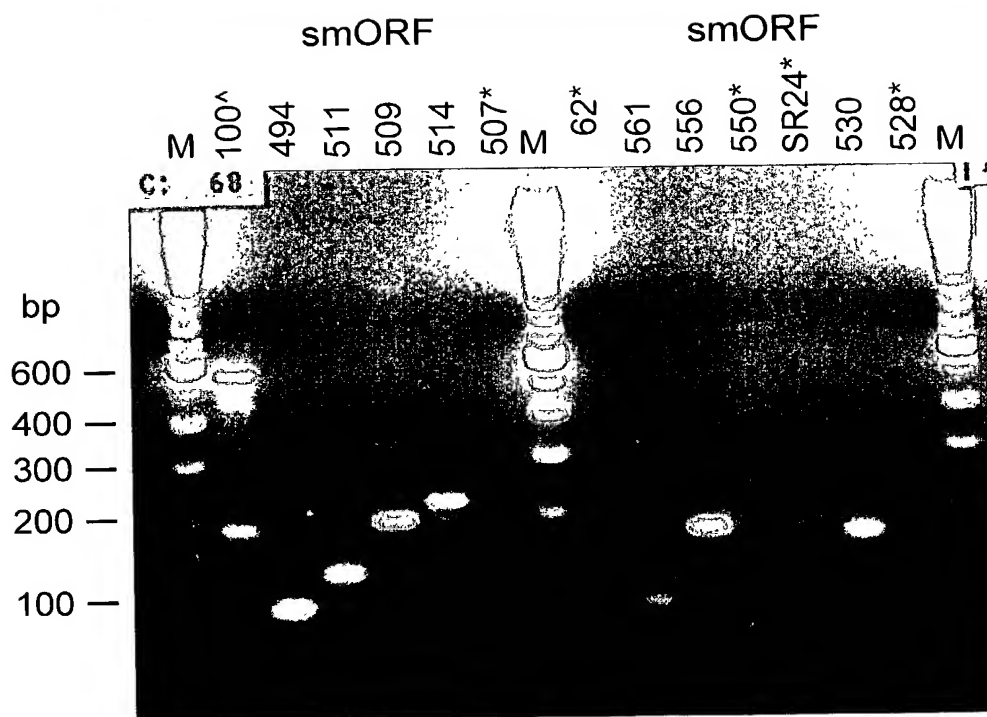
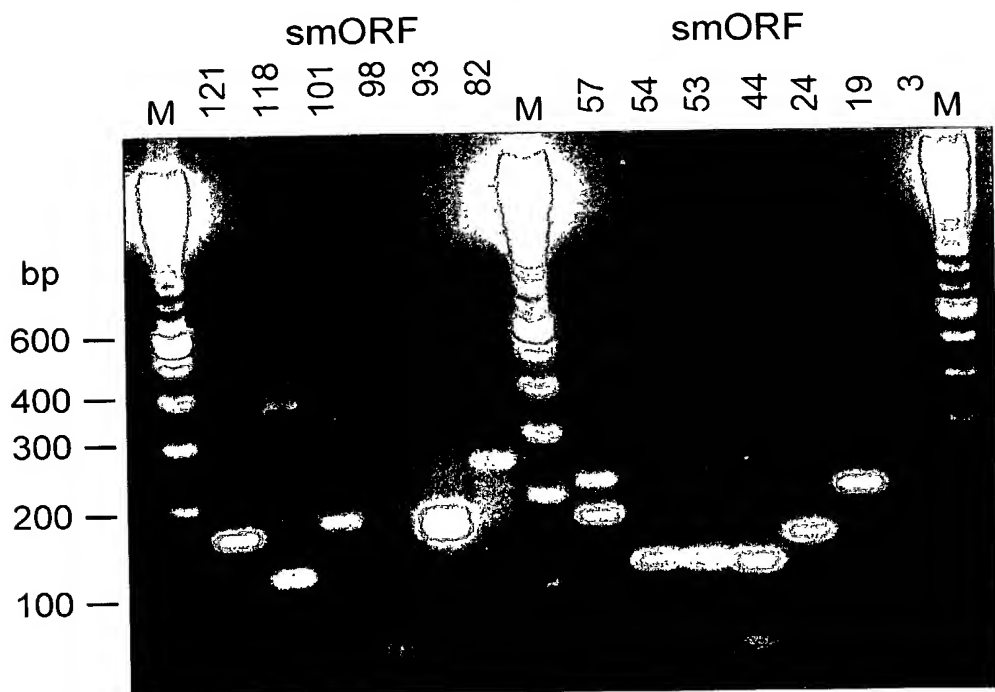


Fig. 2C

Fig. 2D



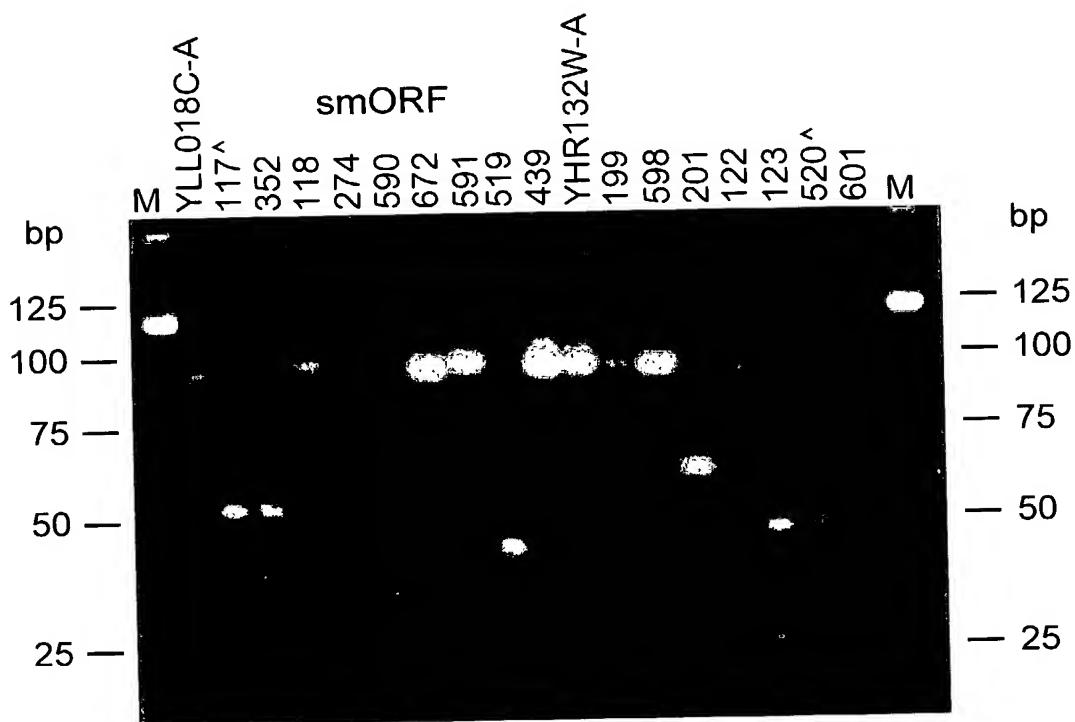


Fig. 2E

smORF18

MSV---YHDEVEIEDFEYDEEEEMVYVPCPCGDRFQISKEELIEGEEVATCPSCSLVIRKVIYDPDMFKAEDEE--SALNEKLGDLKLEKN  
MAV---FHDEVEIEDFOYDEDESETYFYPCPCGDNFSITTKEDLENGEDVATCPSCSLIRKVIYDKQFVCGETVP--APS---ANKELVKC  
MSV---FHDEVEIEDFEDEEKDWHYPCPCGDRFEIIPREMLEMGEDVAQCPSCSLIRVIYDPEDFVKLETIS--TSK---PIAEPV--  
MS---FYDEIELEDFTFDAGTNLYTFPCPCGDRFEIISLEDLQGEDVARCPSCSLIRVIYDEDEFEFMEVDNDA--STA---PIIIAA--  
MS---TYDEIEIEDMTFEPENQMTYPCPCGDRFQIYLDMMFEGEKVAVCPSCSLMIDVFDKEDLAEYEEAGIHPPPE--PIAAAA--  
ME---TIYDEIEIEDFTDPVQOIFQYPCPCGDRFAISLYDMQEGEDIAVCPSCSLMKVIFEPEDLEEYLEG-----  
MADEALSITYDEIEIEDMTFDPNLQIYHYPCPCGDRFEIADLDLGEDIAVCPSCSLMIRVIFEVSDLPKDGNOQ--APGA--VSVQA--  
MADEALSITYDEIEIEDMTFDANLQIYHYPCPCGDRFEIADLDLRYGEDIAVCPSCSLMIKVIQDFDQSDLPKEEKKKE--TEG--VSVKA--

smORF139

MPKRLSGLOKEVLEHYRASIRTAHFKPKENQVNFVNIHEEFGKYRNLPKQDFTTIEHLLRVGNKKIATFSPHPELTNIH--  
MAP--LSGLQRDVLQLYRKGIRMVKPKPTD--HFWNFEHEEFAKYQHLKQOFNTIEYLIRNGHRKLEMYLNPQLKDIH--  
MAR--LSGLQREVLSTYRKGLREIRKKPSETRGNFKAYTRAEPKKNMSVKKDFSAIEYLLRKGNRQLEMYSSPGIRNIQ--  
MA--LSGLQROVIHFYRRCLHAKAKEQYPYNERMMMFHQQEPRKNOTISKRDFFYIEHLLRMGQRQYEAYSREPEVKDIHFS

smORF570

-----MSALFNFRSLLQVILLLLICSCSYVHGQWPSLLDRYKNHEVLGAFWKMARVGERASPYVSLACILMAIS-----QFNS--  
KPSISPTNALKSALENFQSLLQVILLLLICTCTYVHSTAPAILDNRK--SGILSVFWKFARIGERLSPYVALGCFIMAFN-----TLSS--  
-----MSAIFNFQSLLQVILLLLICTCAYIRSLAPSLDRNK--TGLLGTFWKCARIGERKSPYVAVCCIVMAFS-----ILFIQ--  
-----MSAIFNFQSLLQVILLLLICTCAYIRSLAPSLDRNK--TGLLGTFWKCARIGERKSPYVAVCCIVMAFS-----ILFIQ--  
-----MSAIFNFQSLLQVILLLLICTCAYIRSLAPSLDRNK--TGLLGTFWKCARIGERKSPYVAVCCIVMAFS-----ILFIQ--  
-----MLPSALFNHQSLLQVILLLLICTCAYIRSLFPSLDRNK--TGFMGTFWKCLARIGERKSPWVGACCLIMAFN-----VLFWS--  
-----MSQSALFNFSLLQVILLLLICTSTYAHSIMPGIMDRNQ--RGFGTFWKCARIGERLSPYVSLCCHLMAVSTPRFYVILLSNAY

Fig. 3

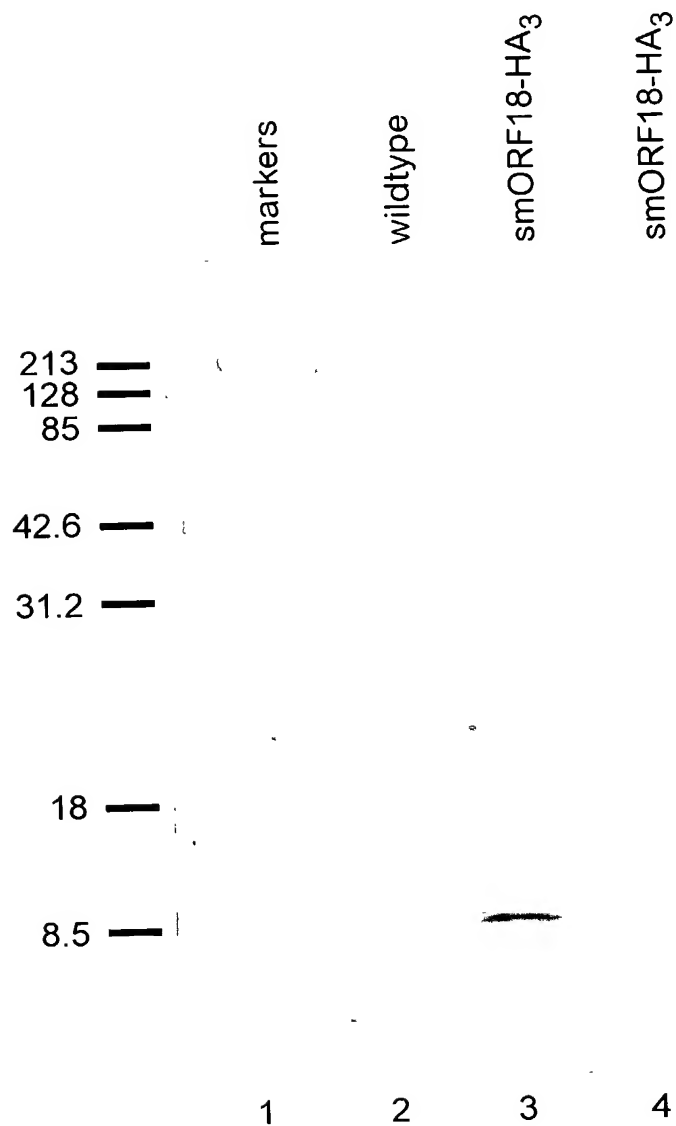


Fig. 4

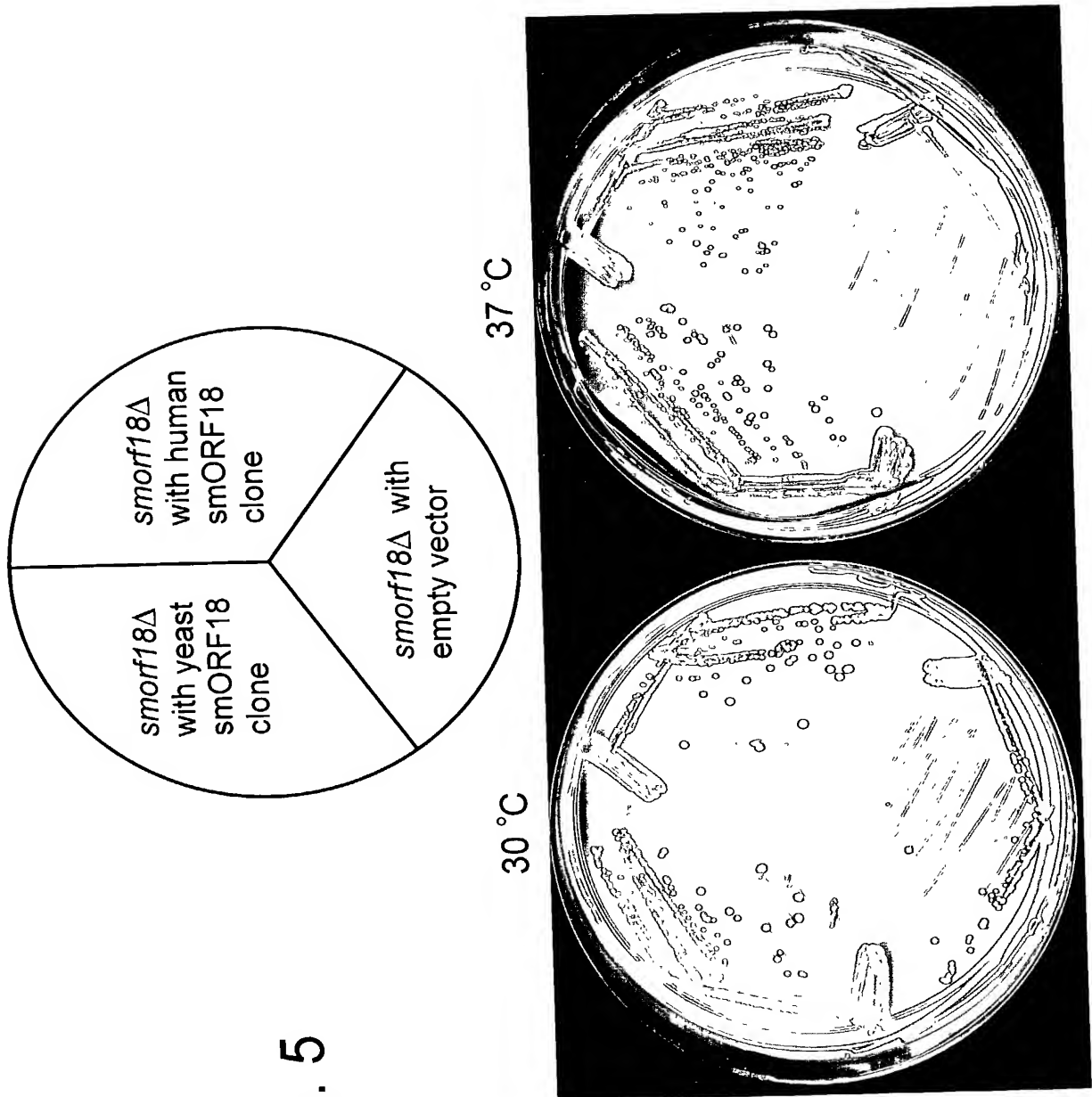


Fig. 5



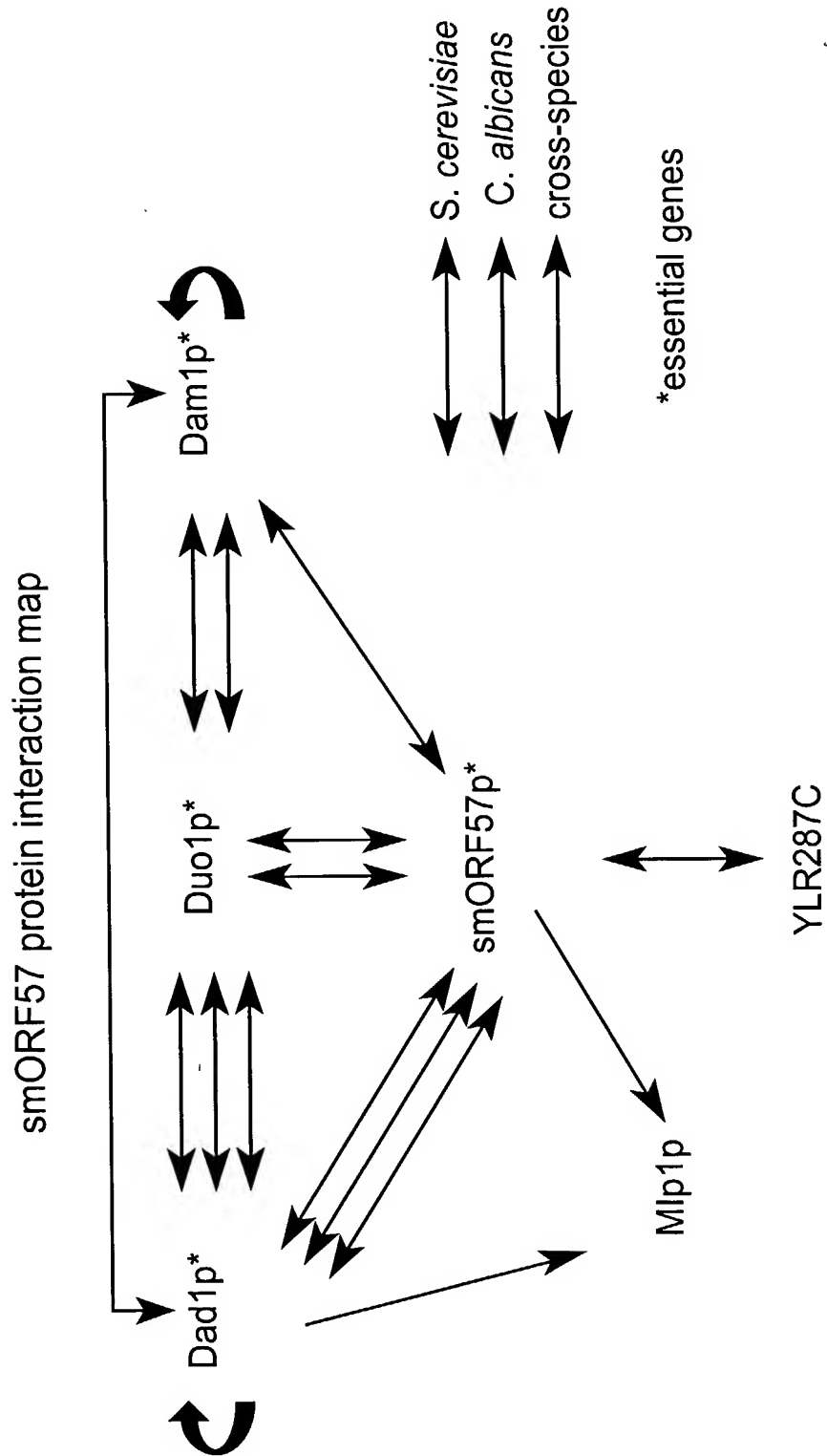


FIG. 6